

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 4305POLYVFIR	FOR FURTHER ACTION		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/EP2005/050945	International filing date (day/month/year) 03/03/2005	(Earliest) Priority Date (day/month/year) 05/03/2004	
Applicant GLAVERBEL			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 6 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,
☐

the text is approved as submitted by the applicant.

☒

the text has been established by this Authority to read as follows:

GLAZING PANEL

5. With regard to the **abstract**,
☒

the text is approved as submitted by the applicant.

☐

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐

as suggested by the applicant.

☐

as selected by this Authority, because the applicant failed to suggest a figure.

☐

as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP2005/050945

A. CLASSIFICATION OF SUBJECT MATTER C03C17/34 C03C17/42 C03C27/10 B32B17/10 E06B3/66		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) C03C B32B E06B		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DE 42 24 053 A (GLAVERBEL) 28 January 1993 (1993-01-28) column 1, line 19 - column 2, line 18 column 7, line 17 - column 8, line 28	1-3, 6, 9, 11, 12, 24
Y	claims 1-22; examples 1-6 -----	1-24
X	DE 25 42 441 A (BFG GLASSGROUP) 31 March 1977 (1977-03-31) page 3, paragraph 1 - page 4, paragraph 2 page 6, paragraph 3 - page 7, paragraph 1	1, 6, 9
Y	page 7, paragraph 2 - page 9, paragraph 1 -----	1-24
X	DE 199 16 506 C (FLACHGLAS AG) 13 July 2000 (2000-07-13)	1-3, 11, 12, 14, 24
Y	column 2, line 52 - column 5, line 56; claims 1-12; figure 1; examples 1-5 -----	1-24
-/-		
<input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex.		
* Special categories of cited documents: *A* document defining the general state of the art which is not considered to be of particular relevance *E* earlier document but published on or after the international filing date *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (s) specified *C* document referring to an oral disclosure, use, exhibition or other means *P* document published prior to the international filing date but later than the priority date claimed *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art *G* document member of the same patent family		
Date of the actual completion of the international search 22 November 2005		Date of mailing of the international search report 30/11/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer Maurer, R

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050945

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 219 801 A (VER GLASWERKE GMBH) 29 April 1987 (1987-04-29)	4,5,10
Y	page 2, line 16 - page 3, line 13 page 4, line 14 - page 5, line 19; claims 1-4; figures 1,2	1-24
X	EP 0 617 078 A (HOECHST AG) 28 September 1994 (1994-09-28)	1,14
Y	examples 1-8 page 5, lines 25-56 page 6, lines 3-42; claims 1-15; table 1	1-24
Y	WO 00/37383 A (GLAVERBEL ; GOELFF PIERRE (BE); DECROUPET DANIEL (BE)) 29 June 2000 (2000-06-29)	1-24
	page 5, line 6 - page 6, line 8 page 6, lines 30-36 claims 1-13; examples 1,2	
Y	EP 1 147 066 A (GLAVERBEL) 24 October 2001 (2001-10-24)	1-24
	page 2, line 36 - page 3, line 57; claims 1-12	

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.1

Claims 1-24 searched incompletely:

Reason for the limitation of the search:

Present claims 1-24 relate to products (glazing panel), which are (inter alia) defined by reference to desirable characteristics or properties, namely heat release, mechanical resistance, fire rating, bullet resistance, surface compression, emissivity, Tg. No compositions of the essential features of the panel (e.g. glass sheet, interlayer) are claimed, e.g. no glass composition and the interlayer is characterized by the vague term "PVB- or EVA-based material" but it is not known what would be the rest of said material.

The claims cover all products having said characteristic or property, whereas the application provides support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC for only a very limited number of such products. In the present case, claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible.

Independent of the above reasoning, the claims also lack clarity (Article 84 EPC). An attempt is made to define the product by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible.

Moreover, present claims 1-24 relate to products defined (inter alia) by reference to the following parameters: Heat release, mechanical resistance, fire rating, bullet resistance, expansion coefficient, Tg. The use of these parameters in the present context is considered to lead to lack of clarity within the meaning of Article 84 EPC. It is impossible to compare the parameters the applicant has chosen to employ with what is set out in the prior art. The lack of clarity is such as to render a meaningful search impossible. Consequently the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed (fig1,2).

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/EP2005/050945**Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: —
because they relate to subject matter not required to be searched by this Authority, namely:
see FURTHER INFORMATION sheet PCT/ISA/210
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050945

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 4224053	A	28-01-1993	
		AT 400321 B	27-12-1995
		AT 149892 A	15-04-1995
		AU 653410 B2	29-09-1994
		AU 1950792 A	28-01-1993
		BE 1006494 A3	13-09-1994
		CH 684396 A5	15-09-1994
		CZ 9202277 A3	17-02-1993
		ES 2059246 A2	01-11-1994
		FR 2679549 A1	29-01-1993
		GB 2258422 A	10-02-1993
		IT 1257382 B	15-01-1996
		JP 2997136 B2	11-01-2000
		JP 5245975 A	24-09-1993
		LU 88152 A1	15-02-1993
		NL 9201306 A	16-02-1993
		NO 922929 A	25-01-1993
		SE 505978 C2	27-10-1997
		SE 9202140 A	25-01-1993
		SK 227792 A3	09-11-1994
DE 2542441	A	31-03-1977	NONE
DE 19916506	C	13-07-2000	
		EP 1044801 A2	18-10-2000
		JP 2000344553 A	12-12-2000
EP 0219801	A	29-04-1987	
		DE 3537255 A1	23-04-1987
EP 0617078	A	28-09-1994	
		DE 4309638 A1	29-09-1994
		ES 2115093 T3	16-06-1998
		JP 7133392 A	23-05-1995
		US 5434207 A	18-07-1995
WO 0037383	A	29-06-2000	
		AU 2433500 A	12-07-2000
		CZ 20012223 A3	13-03-2002
		HU 0104650 A2	28-11-2002
		PL 349502 A1	29-07-2002
		SK 8392001 A3	07-01-2002
EP 1147066	A	24-10-2001	NONE